

TABLE OF CONTENTS

DISCLAIMER.....	ii
ACKNOWLEDGEMENTS	iii
EXECUTIVE SUMMARY	iv
TABLE OF CONTENTS	vi
LIST OF FIGURES	x
LIST OF TABLES	xii
1.0 INTRODUCTION.....	15
1.1 Traffic Noise and its Mitigation.....	16
1.2 Research Objectives	17
1.3 Research Scope	18
1.4 Outcomes and Benefits	18
1.5 Report Organization	20
2.0 LITERATURE REVIEW SUMMARY	22
2.1 Background Information	22
2.2 Tire-Pavement Noise Measurement Methods	23
2.2.1 SPB and CPB Methods	23
2.2.2 CPX (Trailer) Method.....	24
2.2.3 OBSI Method.....	25
2.2.4 TPTA (Drum) Method	27
2.3 Considerations in Tire-Pavement Noise Measurement.....	27
2.3.1 Speed Effect.....	28
2.3.2 Pavement related Effects	28
2.3.3 Temperature Effect	28
2.3.4 Wind Effect.....	28
2.4 Data Analysis and Current Tire-Pavement Noise Findings	28
2.5 Findings of Tire-Pavement Noise Levels.....	29
3.0 EQUIPMENT ACQUISITION AND FIELD TEST PREPARATION	31
3.1 General Information	31
3.2 OBSI Microphone Mounting Fixture and Fabrication.....	31